

RECONNAISSANCE INSPECTION NOTES

UNION OIL COMPANY - INDUSTRIAL WASTE TREATMENT
(Lemont)

DATE - November 13, 1975

NPDES Permit # - IL 0001589

INTERVIEWED - Henry Haas, Environmental Supervisor-Union
Leo Erchull, Chemist-Union



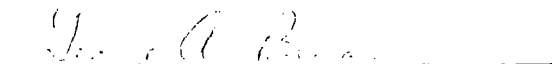
An inspection was made at the above site with the intention of observing the plant operation and collecting an effluent grab sample. Upon arrival at the refinery, I was informed by Henry Haas that the treatment facilities were experiencing problems and as a result, effluent was being diverted to the treated water basin and there was no discharge to the Chicago Sanitary and Ship Canal. An inspection of the treatment units followed this conversation. I was accompanied by Leo Erchull.

1. The API oil separator was operating quite efficiently. Most of the surface oil was being removed with only a slight irridescence remaining. Erchull claimed that this removed oil to approximately 1 ppm.
2. Following the equilization tank which receives API separator effluent along with decantate from the sludge centrifuge, wastes are settled with lime addition. Effluent at this point was a cloudy light green color with no visible solids and with a slight oil presence.
3. The activated sludge portion of this plant received the clarifier effluent along with intermittent domestic wastes from an adjacent lift station. The contents of this tank appeared satisfactory with its light brown color. The unit uses four mechanical aerators with sludge being returned at these four points. Facilities exist for addition of nutrients if the need should arise.

The corresponding final clarifier appeared to be in satisfactory condition. The effluent was a bit cloudy with some slight visible solids. This discharge was being stored in the treated water basin.

4. The storm water basin was observed during the inspection. Although this is mainly non-contaminated storm runoff, oil could be easily noticed on the surface. This accumulation of storm water is released at a constant rate to the process flow.
5. No discharge was observed at the Chicago Sanitary & Ship Canal.

GAB:rmk
1-26-76 - 1-28-76


George A. Braam, EPE